

5M CMOS CoaXPress  
98 fps Global Shutter

NEW

# STC-MBS510CXP6 【 Monochrome 】

# STC-MCS510CXP6 【 Color 】

SONY CMOS 5MP CoaXPress  
Max 98fps( @ CXP-6, 1lane )  
Compact Size & Easy to Attach Design  
Long Cable Lengths

**CoaXPress**



## Product Features

- 2448 (H) x 2048 (V)
- 3.45 $\mu$ m x 3.45 $\mu$ m
- 98 fps
- 2/3"
- Global Shutter
- Lens Mount : C
- Support PoCXP
- 28 x 28 x 40 mm ( connector excluded )



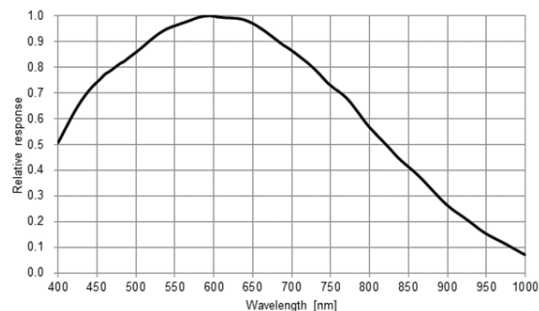
## Specifications

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Numbers              | : STC-MBS510CXP6 ( Monochrome )<br>STC-MCS510CXP6 ( Color )                                                                                                                                                                                               |
| Image Sensor               | : 2/3" 5M CMOS ( SONY : IMX250 )                                                                                                                                                                                                                          |
| Shutter type               | : Global                                                                                                                                                                                                                                                  |
| Effective Pixels           | : 2448 (H) x 2048 (V)                                                                                                                                                                                                                                     |
| Cell Size                  | : 3.45 (H) x 3.45 (V) $\mu$ m                                                                                                                                                                                                                             |
| Scanning method            | : Full scanning、ROI                                                                                                                                                                                                                                       |
| Maximum Frame Rate         | : 【 CXP-6 】 8bits : 98fps / 10bits : 80fps / 12bits : 68fps<br>【 CXP-3 】 8bits : 57fps / 10bits : 45fps / 12bits : 38fps                                                                                                                                  |
| ADC bits width             | : 12bits                                                                                                                                                                                                                                                  |
| Image Format               | : Mono8 / Mono10 Packed Msb / Mono12 Packed Msb<br>BayerRG8 / BayerRG10 Packed Msb / BayerRG12 Packed Msb                                                                                                                                                 |
| Noise Level                | : Less than 6 digits ( Gain 0 dB , 8bits )<br>Less than 12 digits ( Gain 0 dB , 10bits Packed )<br>Less than 48 digits ( Gain 0 dB , 12bits Packed )                                                                                                      |
| Sensitivity                | : 【 Monochrome 】<br>110 Lux ( 8bits ) , 440 Lux ( 10bits Packed , 12bits Packed )<br>【 Color 】<br>210 Lux ( 8bits ) , 820 Lux ( 10bits Packed , 12bits Packed )                                                                                           |
| Exposure time              | : 1 $\mu$ seconds to 16.777 seconds                                                                                                                                                                                                                       |
| Analog Gain                | : 0 to 18 dB                                                                                                                                                                                                                                              |
| Digital Gain               | : x1 to x7                                                                                                                                                                                                                                                |
| Black Level                | : 0 to 31 gidits ( 8bits )<br>0 to 127 gidits ( 10bits Packed )<br>0 to 511 gidits ( 12bits Packed )                                                                                                                                                      |
| ROI(AOI)                   | : Horizontal : 256 to 2448 / Vertical : 4 to 2048<br>Adjustable steps for size<br>: 8 pixels in horizontal direction / 2 lines in vertical direction<br>Adjustable steps for offset<br>: 2 pixels in horizontal direction / 2 lines in vertical direction |
| Multi ROI                  | : Eight Regions ( Horizontal 1 x Vertical 8 regions )                                                                                                                                                                                                     |
| Gamma                      | : N/A                                                                                                                                                                                                                                                     |
| Binning                    | : 2 x 2, Off * Monochrome model only                                                                                                                                                                                                                      |
| Decimation                 | : 1/2 x 1/2, Off                                                                                                                                                                                                                                          |
| Image Flip                 | : Horizontal / Vertical / Horizontal and Vertical / Off                                                                                                                                                                                                   |
| Defective Pixel Correction | : Up to 512 points                                                                                                                                                                                                                                        |
| Auto Exposure              | : N/A                                                                                                                                                                                                                                                     |
| Auto Gain                  | : N/A                                                                                                                                                                                                                                                     |
| Auto White Balance         | : Off / Once / Continuous / Disable *Color model only                                                                                                                                                                                                     |
| Operational Mode           | : Edge preset trigger / Pulse width trigger /<br>CXP trigger packet / Free run                                                                                                                                                                            |
| Protocol                   | : CoaXPress Standard Version 1.1.1 and GenICam SFNC 2.4 compliant                                                                                                                                                                                         |
| Input / Out put            | : Four GPIO                                                                                                                                                                                                                                               |
| Input Voltage              | : PoCXP (+18.5 to +26 Vdc)                                                                                                                                                                                                                                |
| Consumption                | : Maximum: 3.6 W, Typcal: 3.1 W                                                                                                                                                                                                                           |
| Dimensions                 | : 28 (W) x 28 (H) x 40 (D) mm ( excluding the connectors )                                                                                                                                                                                                |

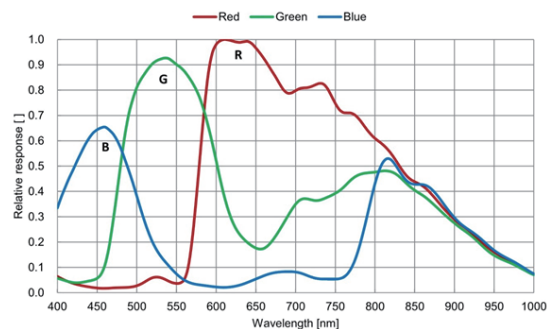
|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Optical Filter       | : No Optical Filter                                                                   |
| Lens Mount           | : C Mount                                                                             |
| Interface Connectors | : CXP Connector : BNC, 75 ohm<br>IO Connector : HR10A-7R-6PB ( Hirose ) or equivalent |
| Weight               | : Approximately 52 g                                                                  |

## Spectral Sensitivity

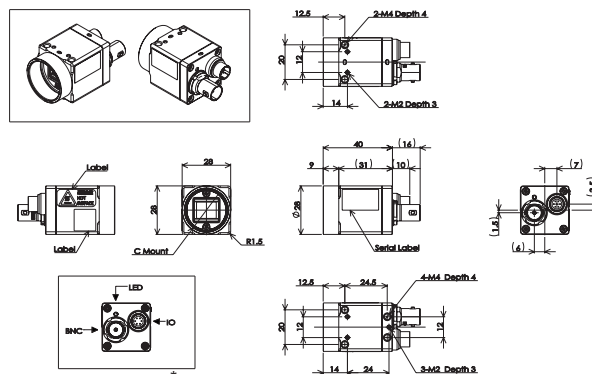
STC-MBS510CXP6



STC-MCS510CXP6



## Dimensions



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Note: Do not use this document to operate the Unit.

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